

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

(For all sources except PSD and true minor sources)

Completed by: Ben Markin

General Information

Name:	Riverside Generating Company, LLC
Address:	Lawrence County, Route 2, Near Catlettsburg, Kentucky
Date application received:	September 15, 2000
SIC/Source description:	4911/Electric Power Generation
AFS(10-digit) Plant ID:	21-127-00040
Application log number:	54149
Permit number:	V-99-051 (Revision III)

Application Type/Permit Activity

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__X_Minor	<input checked="" type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

Compliance Summary

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

Applicable Requirements list

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS/MACT	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017,1(2)(b) or 51:052, 1(14)(b)	

Miscellaneous

- ☒ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source subject to 112(g) or 112(j) determination
- ☒ Source requested synthetic PTE limit to avoid major source requirement
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source requested plant-wide applicability limit (PAL)
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source requested terms for operational flexibility
- ☐ Source requested streamlining of multiple applicable requirements
- ☐ Source requested monitoring plan to establish periodic monitoring
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

Emissions Summary

Pollutant	Actual (tpy)	Potential (tpy)
PM ₁₀	21	21
SO ₂	7.2	7.2
NO _x	245	245
CO	245	245
VOC	31	31
LEAD	0.066	0.066
HAP ≥ 10 tpy/25 tpy (by CAS)	NA	NA

* Emissions calculated for 4580 hours of operation per year or less for all three turbines combined. Includes gas heater and three combustion turbines. Other activities classed as insignificant.

SOURCE PROCESS DESCRIPTION:

Riverside Generating Company of Houston, Texas is proposing a minor modification at their permitted source located in Lawrence County, Kentucky near Catlettsburg. The modification will include construction/operation of 605 hp (400kW) emergency diesel generator operating at 250 hours per year and reducing the hours of operation on the combustion turbines to 4580 hour per year; reducing source-wide emission from 249 to 245 tons per year

EMISSIONS AND OPERATING CAPS DESCRIPTION:

With this construction, Riverside Generating Company potential nitrogen oxides and carbon monoxide emissions for this project are effectively limited to 245 tons per year source wide from the initial 249 ton per year for each pollutant from the combustion turbines, emergency generators and natural gas heater, thus precluding a NSR/PSD review. The total operation time for the project shall not exceed 4580 on a twelve month rolling total. The sulfur content of natural gas fuel is also limited below the 40 CFR 60 Subpart GG level to assure that NSR/PSD review is precluded. Hazardous air pollutants' emissions should inherently be less than Title V levels given the limitations and operations necessary to achieve the nitrogen oxides and carbon monoxide emission levels.